

Using Drones and Terrestrial Scanners to Improve GIS Data Collection

Philip Bernard - Frontier Geospatial

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Bio:

Philip has been in the GIS field since the turn of the century. In that time, he has worked in both the public and private sectors. His work in the GIS field has included everything from data editing and creation to scripting and application development. He has years of experience with ESRI, Open Source GIS solutions, and database design and administration.



In his off time Philip enjoys biking, minor league hockey, and adding shoes and movies to his Netflix queue and then never actually watching them.

Abstract:

Rapidly developing technology is changing how we collect data. For the last several years drones have been used to collect highly accurate, high resolution photography which can be processed into orthophotos, point clouds, and elevation data models. This data gives us great insight on our outside world, but what about what's going on indoors?

Terrestrial laser scanners bridge that gap. Whether they are tripod mounted scanners or hand held units modern laser scanners create dense, accurate point clouds that can be used for mapping purposes allowing users to accurately map indoor assets in their asset management programs, develop floorplans for emergency response needs, or give architects and designers powerful tools to plan remodels and renovations.

